

DERWENT-ACC-NO: 1992-298406

DERWENT-WEEK: 199236

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TITLE: Polymer based composite material films prodn.  
equipment  
- roller-drawn metal strip-electrode is coated  
with  
molten polymer on which piezoceramic articles  
are blown  
and pressed

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PRIORITY-DATA: 1989SU-4746338 (August 30, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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ABSTRACTED-PUB-NO: SU 1694411A

BASIC-ABSTRACT:

Strip drawing mechanism (1) has rollers (2) with 1st strip electrode (3) and (9) with 2nd strip-electrode (10), rollers (4) to apply polymer coating, reception drum (17), heater (14). and current source (16). Chamber (5) to introduce filler has sprayer (7) and electrode (8) at angle to one another, plus rollers (11) to form compsn. film 2nd strip electrode (10) is in chamber (5).

An electric motor moves drawing mechanism (1); on to metal strip forming 1st strip-electrode (2) to which -ve potential is fed, molten polymer from tank (12) is applied by rollers (4). Strip with polymer coating moves

between  
heated drawing table (13) and chamber (5) to apply filler, using  
sprayer (7) at  
angle to electrode (8); filler is finely dispersed piezo-ceramic  
powder. It is  
rejected from electrode (8) at potential = +1000 V and particles are  
oriented  
as they are embedded in the molten polymer film. Filler particles  
are finally  
pressed and simultaneously connected to 2nd strip electrode (10),  
using rollers  
(11).

USE/ADVANTAGE - For mfr. of polymer-based compsn. materials. Mfg.  
technology  
is improved. Bul.44/30.11.91

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